

Using the Miga Data Viewer

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The Miga Data Viewer (Miga DV)

An open-source, PHP- and Javascript-based generic viewer for structured data.

Created by me in 2013; others have since contributed.

<http://migadv.com>

Main theory behind Miga

The “data is data” theory: everything we need to know about displaying a set of data can be determined from:

- The data
- The data schema
- ...and that's it, plus a few display settings

Miga: Features

- Gets data from CSV file(s) and a .ini file that defines the data schema
- Helper scripts to create CSV files from **SMW**, plain MediaWiki **infobox data**, or **Wikidata**
- App-like interface, including maps and calendars

Sample Miga schema file

[Jazz musicians]

Name = **Name**

Birth date = **Date**

Instrument = **List (,) of Text**

Associated acts = **List (,) of Entity
(Jazz musicians/Name)**

Image = **Image URL**

URL = **URL**

Offline/mobile features

- Stores all its data on the browser, using Web SQL (i.e., SQLite on the browser)
- Also stores its *code* on the browser, so it can work offline
- Works on all major browsers, laptop and mobile, except IE and Firefox

Let's look at some
examples!

UNDP “Communities Connect”

- An initiative to provide learning materials of effective solutions to local farmers, etc.
- The challenge (a few months ago):
provide a browsable, searchable interface for a set of > 200 PDFs, videos, etc.
- The solution: Miga!

Communities Connect site

- <http://undpdata.portakb.com/portakb>
- Created by Ontodia, with some assistance from me.
- Required some JS and CSS customization – some of the JS changes are now being merged “upstream”.

How does Miga *draw from* SMW?

- Types in data schema are based on SMW types (Text, Number, Entity (= Page), etc.)
- Data storage based on SMW's SQL Store (all data is stored as triples)
- Browsing interface heavily based on Semantic Drilldown

How can Miga *help* SMW?

- A mobile interface for SMW data
- Suggests various ways to make SMW “smarter” - e.g., display maps automatically if there's a coordinates property
- A replacement for SMW, if SMW is being for viewing but not editing data

Questions/Comments?